



SEQUENCE LISTING

COPY OF PAPERS
ORIGINALLY FILED

44

<110> Beraud, Christophe
Ohashi, Cara
Sakowicz, Roman
Vaisberg, Eugeni
Wood, Ken
Yu, Ming
Cytokinetics, Inc.

<120> HUMAN KINESINS AND METHODS OF PRODUCING AND PURIFYING
HUMAN KINESINS

<130> 020552-000410US

<140> 10/045,631

<141> 2001-10-19

<150> WO PCT/US00/10870

<151> 2000-04-20

<150> US 09/295,612

<151> 1999-04-20

<160> 87

<170> PatentIn Ver. 2.1

<210> 1

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3' Primer for
amplification of Chromokinesin (residues 1-193)

<400> 1

ccaaacagga aacagtatcc aaggcaacc

29

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chromokinesin
5' Primer(spanning nucleotides 76-1178)

<400> 2

tgcccatctc gtgagaaagc

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chromokinesin

3' Primer (spanning 76-1178)

<400> 3
gcttgacgga gagcatgctg 20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chromokinesin
5' Primer (spanning 1032-3326)

<400> 4
attgattacc cagttatcgg 20

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chromokinesin
3' Primer (spanning 1032-3326)

<400> 5
tgatgactcc aacttcagtg 20

<210> 6
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Kin-2 5'
Primer (spanning 2-2088)

<400> 6
gccgaataca tcaagcaatg gtaac 25

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Kin-2 3' Primer
(spanning 2-2088)

<400> 7
tctgggtatc ctttagcagc aaatg 25

<210> 8
<211> 25
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: MKLP1 5' Primer (spanning 73-2078)

<400> 8

agccatgttg tcagcgagag ctaag

25

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: MKLP1 3' Primer (spanning 73-2078)

<400> 9

agggtctctc tggcttctca gttttagg

28

<210> 10

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: KSP 5' Primer (spanning 66-3259)

<400> 10

ccttgatttt ttggcgggga ccgtc

25

<210> 11

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: KSP 3' Primer (spanning 66-3259)

<400> 11

aaaggttgat ctgggctcgc agagg

25

<210> 12

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: MCAK 5' Primer (spanning 22-2274)

<400> 12

gcgtttctct tccttgctga ctctc

25

<210> 13
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: MCAK 3' Primer
 (spanning 22-2274)

 <400> 13
 agaggctggg tgtcaaacca aacag 25

 <210> 14
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Kid 5' Primer
 (spanning 101-1596)

 <400> 14
 gtcgctgtcg gctaagcaag 20

 <210> 15
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Kid 3' Primer
 (spanning 101-1596)

 <400> 15
 ctttgcccct gtgactgtgc 20

 <210> 16
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Kid 5' Primer
 (spanning 28-248)

 <400> 16
 ctggatccca gccgcgggcg gctcgacgca g 31

 <210> 17
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Kid 3' Primer
 (spanning 28-248)

<400> 17
 ctctagagag cagctgtcca tgcccc 26

<210> 18
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: HSET 5' Primer
 (spanning 213-1624)

<400> 18
 gggcttggtg caagagcttc 20

<210> 19
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: HSET 3' Primer
 (spanning 213-1624)

<400> 19
 caccctcac ccgatacata gac 23

<210> 20
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ATSV 5' Primer
 (spanning 21-2311)

<400> 20
 gggctccac tactgcgagg 20

<210> 21
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ATSV 3' Primer
 (spanning 21-2311)

<400> 21
 ctctctctcg ttcacctccg 20

<210> 22
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Sense oligo
for pET23dmyc

<400> 22

tcgagggtac cgagcagaag ctgatacagcaggaggacct ga

42

<210> 23

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Antisense
oligo for pET23dmyc

<400> 23

tcgatcaggt cctcctcgct gatcagcttc tgctcggtac cc

42

<210> 24

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: K335 5' Primer

<400> 24

tagccatgga agaggtgaag ggaattc

27

<210> 25

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: K335 3' Primer

<400> 25

ccgctcgagt tttcttgctc tgtc

24

<210> 26

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Q475 5' Primer

<400> 26

tagaagcttg gaagaggtga aggg

24

<210> 27

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Q475 3' Primer

<400> 27

tagaagcttc tgggtaatca attg

24

<210> 28

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: D679 5' Primer

<400> 28

tagaagcttg gaagaggtga aggg

24

<210> 29

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: D679 3' Primer

<400> 29

tagaagcttg tctcgttctt ttaac

25

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: FL1 5' Primer

<400> 30

tagaagcttg gaagaggtga aggg

24

<210> 31

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: FL1 3' Primer

<400> 31

tagaagcttg tgggcctctt cttcg

25

<210> 32

<211> 26

<212> DNA

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: P166 5' Primer

 <400> 32
 tacggatccc aaattatgaa attatg 26

 <210> 33
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: P166 3' Primer

 <400> 33
 tacaagctta gcagttggat ctacagtc 28

 <210> 34
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: H195 5' Primer

 <400> 34
 tacggatcca taggatatgt gtgtgtg 27

 <210> 35
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: H195 3' Primer

 <400> 35
 tacaagctta gcagttggat ctacagtc 28

 <210> 36
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: FL2 5' Primer

 <400> 36
 ctccatggta acatctttaa atgaagataa tg 32

 <210> 37
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: FL2 3' Primer

<400> 37

ctaagcttaa gggcacgagg tctcttcggg ttg

33

<210> 38

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: E433 5' Primer

<400> 38

atccatggcg agagctaaga caccocggaa acc

33

<210> 39

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: E433 3' Primer

<400> 39

atgcggccgc ttcttgagtc acttccgcaa atctc

35

<210> 40

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: R494 5' Primer

<400> 40

atccatggcg agagctaaga caccocggaa acc

33

<210> 41

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: R494 3' Primer

<400> 41

atgcggccgc ccttggaagt gtctgctcat cgttg

35

<210> 42

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: E658 5' Primer

<400> 42

atccatggcg agagctaaga caccgccgaa acc

33

<210> 43

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: E658 3' Primer

<400> 43

atgcggccgc ttcagtaaca atagccttca gttg

34

<210> 44

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: L360 5' Primer

<400> 44

atccatggcg tgccagccaa attcgtctgc g

31

<210> 45

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: L360 3' Primer

<400> 45

atctcgagca atatgttctt tgctctatga gc

32

<210> 46

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: K491 5' Primer

<400> 46

atccatggcg tgccagccaa attcgtctgc g

31

<210> 47

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: K491 3'

Primer

<400> 47
atctcgagtt tctcctcagt actttccaaa gc 32

<210> 48
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: S553 5' Primer

<400> 48
atccatggcg tgccagccaa attcgtctgc g 31

<210> 49
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: S553 3' Primer

<400> 49
atctcgaggc tgccatcctt aattaattct tcc 33

<210> 50
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M329 5' Primer

<400> 50
ctggatcccg gcggaggaag gagccgtggc c 31

<210> 51
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M329 3' Primer

<400> 51
cactcgagca tatatttagc agtactggc 29

<210> 52
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: T340 5' Primer

<400> 52
ctggatcccg gcggaggaag gagccgtggc c 31

<210> 53
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: T340 3' Primer

<400> 53
cactcgagag ttgatacctc attaacataa ggag 34

<210> 54
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: S405 5' Primer

<400> 54
ctggatcccg gcggaggaag gagccgtggc c 31

<210> 55
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: S405 3' Primer

<400> 55
cactcgagag aagaggtcac cagcatccg 29

<210> 56
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: V465 5' Primer

<400> 56
ctggatcccg gcggaggaag gagccgtggc c 31

<210> 57
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: V465 3' Primer

<400> 57
cactcgagga cagattcatc aatttctcg 29

<210> 58
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: T488 5' Primer

<400> 58
ctggatcccg gcggaggaag gagccgtggc c 31

<210> 59
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: T488 3' Primer

<400> 59
cactcgagtg ttgctggatt ccattctatc 30

<210> 60
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M1 5' Primer

<400> 60
ctggatccgg aggaaatcat gtcttgtgaa g 31

<210> 61
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M1 3' Primer

<400> 61
cactcgagtg gaatcagcgc cccgtagag 30

<210> 62
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M2 5' Primer

<400> 62

ctggatccca aactgggaat ttgcccgaat g

31

<210> 63

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: M2 3' Primer

<400> 63

cactcgagtg gaatcagcgc cccgtttagag

30

<210> 64

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: M3 5' Primer

<400> 64

ctggatccac agaatatgtg tctgtgttag g

31

<210> 65

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: M3 3' Primer

<400> 65

cactcgagtg gaatcagcgc cccgtttagag

30

<210> 66

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: M4 5' Primer

<400> 66

ctggatccgg aggaaatcat gtcttgtgaa g

31

<210> 67

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: M4 3' Primer

<400> 67

cactcgagtg gtccttgctg tatgatctc

29

<210> 68
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: M5 5' Primer

 <400> 68
 ctggatccca aactgggaat ttgcccgaat g 31

 <210> 69
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: M5 3' rimer

 <400> 69
 cactcgagtg gtccttgctg tatgatctc 29

 <210> 70
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: M6 5' Primer

 <400> 70
 ctggatccac agaatatgtg tctgtgttag g 31

 <210> 71
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: M6 3' Primer

 <400> 71
 cactcgagtg gtccttgctg tatgatctc 29

 <210> 72
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: FL3 5' Primer

 <400> 72
 ctccatggac tcgtcgcttc aggcccgc 28

<210> 73
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: FL3 3' Primer

 <400> 73
 ctctcgagct ggggccgttt cttgctgctt atttg 35

 <210> 74
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A2N370 5' Primer

 <400> 74
 ctggatccca gccgcgggcg gctcgacgca g 31

 <210> 75
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A2N370 3' Primer

 <400> 75
 cactcgagat tgatcacctc cttggacctg 30

 <210> 76
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A2M511 5' Primer

 <400> 76
 ctggatccca gccgcgggcg gctcgacgca g 31

 <210> 77
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A2M511 3' Primer

<400> 77
 cactcgagca ttgtgggaca atggttctc 29

<210> 78
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: K519 5' Primer

<400> 78
 tcggatcctt ggtgcaagag cttcag 26

<210> 79
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: K519 3' Primer

<400> 79
 cactcgagct tcctgttggc ctgagc 26

<210> 80
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: E152.2 5' Primer

<400> 80
 catgccatgg aactcaaggg caac 24

<210> 81
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: E152.2 3' Primer

<400> 81
 cactcgagct tcctgttggc ctgagc 26

<210> 82
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Q131.3 5'

Primer

<400> 82
ggatatccat atgcaggaac tcaagggcaa c 31

<210> 83
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Q151.3 3'
Primer

<400> 83
gcaggatcct cacttcctgt tggcctgag 29

<210> 84
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Q353 5' Primer

<400> 84
ctggatcccc ggggcttcgg tgaaggtggc g 31

<210> 85
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Q353 3' Primer

<400> 85
cactcgagct gcttggtccg gtcagcatatc 30

<210> 86
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: M472 5' Primer

<400> 86
ctggatcccc ggggcttcgg tgaaggtggc g 31

<210> 87
<211> 29
<212> DNA
<213> Artificial Sequence

<220>